

FIG.1
(PRIOR ART)

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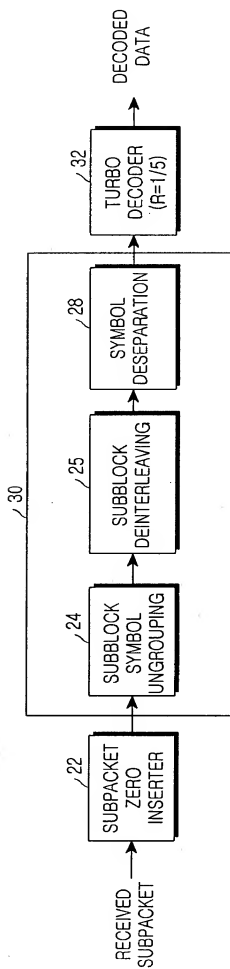


FIG.2
(PRIOR ART)

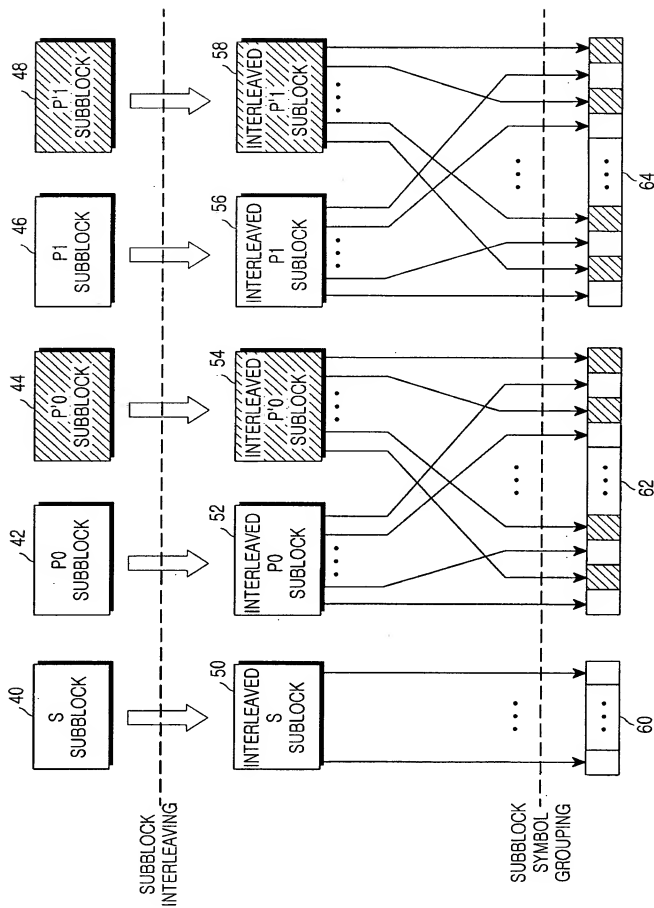


FIG.3 (PRIOR ART)

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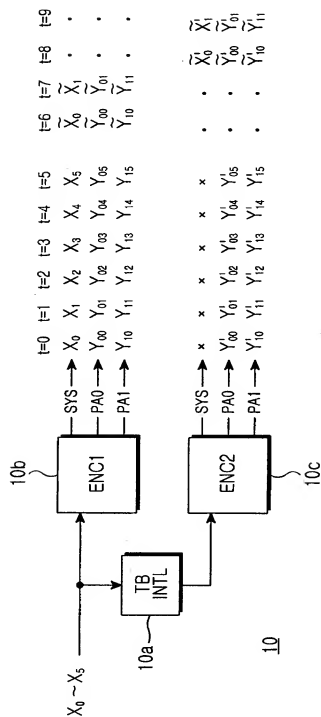


FIG. 4
(PRIOR ART)

Symbol Separation

$$\begin{aligned}
 S : & X_0 \quad X_1 \quad X_2 \quad X_3 \quad X_4 \quad X_5 \quad \widetilde{X}_0 \quad \widetilde{X}_1 \quad \widetilde{X}_2 \quad \widetilde{X}_3 \quad \widetilde{X}_4 \quad \widetilde{X}_5 \\
 P0 : & Y_{00} \quad Y_{01} \quad Y_{02} \quad Y_{03} \quad Y_{04} \quad Y_{05} \quad \widetilde{Y}_{00} \quad \widetilde{Y}_{01} \quad \widetilde{Y}_{02} \quad \widetilde{Y}_{03} \quad \widetilde{Y}_{04} \quad \widetilde{Y}_{05} \\
 P1 : & Y_{10} \quad Y_{11} \quad Y_{12} \quad Y_{13} \quad Y_{14} \quad Y_{15} \quad \widetilde{Y}_{10} \quad \widetilde{Y}_{11} \quad \widetilde{Y}_{12} \quad \widetilde{Y}_{13} \quad \widetilde{Y}_{14} \quad \widetilde{Y}_{15} \\
 P'0 : & Y'_{00} \quad Y'_{01} \quad Y'_{02} \quad Y'_{03} \quad Y'_{04} \quad Y'_{05} \quad \widetilde{Y}'_{00} \quad \widetilde{Y}'_{01} \quad \widetilde{Y}'_{02} \quad \widetilde{Y}'_{03} \quad \widetilde{Y}'_{04} \quad \widetilde{Y}'_{05} \\
 P'1 : & Y'_{10} \quad Y'_{11} \quad Y'_{12} \quad Y'_{13} \quad Y'_{14} \quad Y'_{15} \quad \widetilde{Y}'_{10} \quad \widetilde{Y}'_{11} \quad \widetilde{Y}'_{12} \quad \widetilde{Y}'_{13} \quad \widetilde{Y}'_{14} \quad \widetilde{Y}'_{15}
 \end{aligned}$$

Subblock Interleaving

$$\begin{aligned}
 S : & X_0 \quad \widetilde{X}_0 \quad X_4 \quad X_2 \quad X_3 \quad X_5 \quad \widetilde{X}_1 \quad X_1 \quad \widetilde{X}_2 \quad \widetilde{X}_0 \quad X_3 \quad \widetilde{X}_1 \\
 P0 : & Y_{00} \quad \widetilde{Y}_{00} \quad Y_{04} \quad Y_{02} \quad Y_{01} \quad Y_{05} \quad \widetilde{Y}_{01} \quad Y_{03} \quad \widetilde{Y}_{02} \quad \widetilde{Y}_{00} \quad Y_{03} \quad \widetilde{Y}_{01} \\
 P'0 : & Y'_{10} \quad \widetilde{Y}'_{00} \quad Y'_{04} \quad Y'_{02} \quad Y'_{01} \quad Y'_{05} \quad \widetilde{Y}'_{01} \quad Y'_{03} \quad \widetilde{Y}'_{02} \quad \widetilde{Y}'_{00} \quad Y'_{03} \quad \widetilde{Y}'_{01} \\
 P1 : & Y_{10} \quad \widetilde{Y}_{10} \quad Y_{14} \quad Y_{12} \quad Y_{11} \quad Y_{15} \quad \widetilde{Y}_{11} \quad Y_{13} \quad \widetilde{Y}_{12} \quad \widetilde{Y}_{10} \quad Y_{13} \quad \widetilde{Y}_{11} \\
 P'1 : & Y'_{10} \quad \widetilde{Y}'_{10} \quad Y'_{14} \quad Y'_{12} \quad Y'_{11} \quad Y'_{15} \quad \widetilde{Y}'_{11} \quad Y'_{13} \quad \widetilde{Y}'_{12} \quad \widetilde{Y}'_{10} \quad Y'_{13} \quad \widetilde{Y}'_{11}
 \end{aligned}$$

Subblock Symbol Grouping

$$\begin{aligned}
 S : & X_0 \quad \widetilde{X}_0 \quad X_4 \quad X_2 \quad X_3 \quad X_5 \quad \widetilde{X}_1 \quad X_1 \quad \widetilde{X}_2 \quad \widetilde{X}_0 \quad X_3 \quad \widetilde{X}_1 \\
 P0 \text{ \& } P'0 : & Y_{00} \quad \widetilde{Y}_{00} \quad Y_{04} \quad Y_{02} \quad Y_{01} \quad Y_{05} \quad \widetilde{Y}_{01} \quad Y_{03} \quad \widetilde{Y}_{02} \quad \widetilde{Y}_{00} \quad Y_{03} \quad \widetilde{Y}_{01} \\
 P1 \text{ \& } P'1 : & Y_{10} \quad \widetilde{Y}_{10} \quad Y_{14} \quad Y_{12} \quad Y_{11} \quad Y_{15} \quad \widetilde{Y}_{11} \quad Y_{13} \quad \widetilde{Y}_{12} \quad \widetilde{Y}_{10} \quad Y_{13} \quad \widetilde{Y}_{11}
 \end{aligned}$$

FIG.5
(PRIOR ART)

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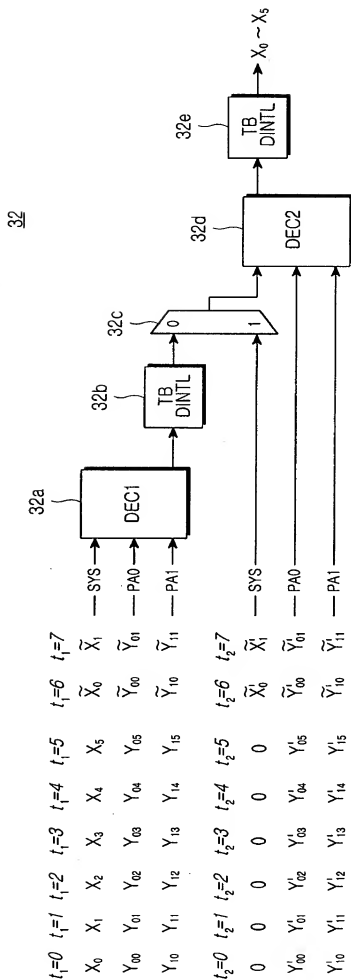


FIG. 6
(PRIOR ART)

EP SIZE	POSSIBLE KINDS OF CODE SYMBOLS IN EACH EP SIZE	CODE RATE
408		0.2000
792		0.2000
1560		0.2000
2328		0.2985
3096		0.3969
3864		0.4954
<div style="border: 1px solid black; padding: 2px; display: inline-block;">S</div> SYSTEMATIC	<div style="border: 1px solid black; padding: 2px; display: inline-block;">P0 / P'0</div> PARITY 0 / PARITY 0'	<div style="border: 1px solid black; padding: 2px; display: inline-block;">P1 / P'1</div> PARITY 1 / PARITY 1'

FIG. 7
(PRIOR ART)